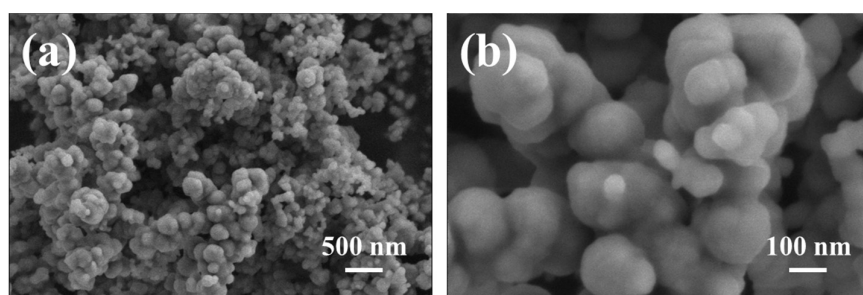
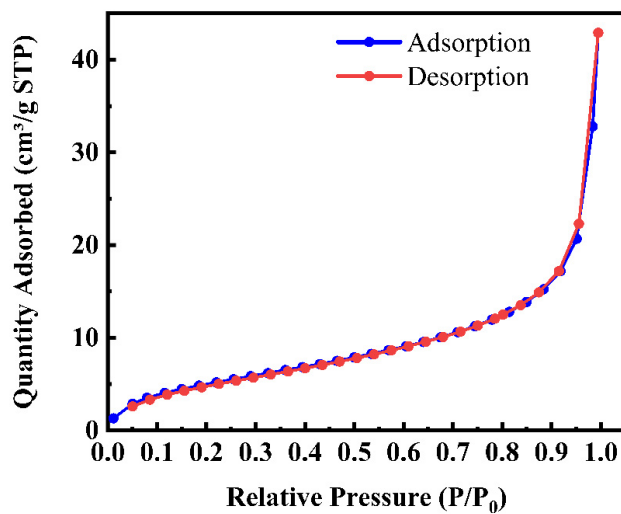


**Figure S1.** SEM images of M-Si obtained through a magnesiothermic reduction process without the use of a heat absorber.



**Figure S2.** SEM images of commercially available non-porous silicon nanopowders.



**Figure S3.** The  $\text{N}_2$  adsorption/desorption isotherm of commercially available non-porous silicon nanopowders.